## Candles and Incense as Potential Sources of Indoor Air Pollution

Zhishi Guo, Environmental Scientist, ORD/NRMRL/APPCD/IEMB, 109 T.W. Alexander Dr. (E305-03), RTP, NC 27711, phone (919-541-0185), fax (919-541-2157), email: guo.zhishi@epa.gov

## **Environmental Issue:**

Burning incense and lead-wick candles indoors may pose a significant risk to human health.

# **Scientific Approach:**

market survey

literature review

emissions testing

exposure modeling

## **Illustrative Details:**

Lead-wick candles are still on the market.

Burning such candles can cause indoor lead concentrations to exceed ambient air-quality standards and also occupational standards.

The amount of fine PM produced from one piece of incense is equivalent to that from smoking 1 to 10 cigarettes.

## **Impact:**

Supported the action taken by CPSC to ban lead-wick candles in U.S. market.

Raised public awareness of the potential risks associated with these products.

Increased awareness of the significance of indoor exposure to risk assessment.